BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF KARAGA MANTAPA (GROUND FLOOR) AND RAMP TO KARAGA MANTAPA AT YELAHANKA LAKE IN WARD NO.01 OF YELAHANKA SUB-DIVISION

								Estimate Cost Rs.	30.00	Lakhs
Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. (P.No.43 / I.No.7.38)									
		Sqm								
			1	79.00		1.30	102.70			
							102.70	6638.76	**681800.65**	
	Basic Rate	6147.00								
	Area Weightage @ 8%	491.76								
	Total	**6638.76**								
2	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part): 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.24&25 / I.No.5.26.2)									
	Mantapa (Ground floor)	Cum								
	Steps		4	6.90		0.80	22.08			
			4	7.85		0.60	18.84			
			4	8.55		0.40	13.68			
			4	9.50		0.15	5.70			
	Ext. to Retaining Wall		1	16.00		0.45	7.20			
							67.50	979.56	**66120.30**	
	Basic Rate	907.00								
	Area Weightage @ 8%	72.56								
	Total	**979.56**								
3	KSRB 5.1-2 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (Uncoursed), bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12 (Page No.23/ Item No.5.3)									
		Cum								
	Mantapa (Ground floor)		1	6.50	6.50	0.80	33.80			
	Steps		4	7.85	0.35	0.60	6.59			
			4	8.55	0.35	0.40	4.79			
			4	9.50	0.35	0.15	2.00			
							47.18	3508.92	**165540.00**	
	Basic Rate	3249.00								
	Area Weightage @ 8%	259.92								

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Total	**3508.92**							
5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.13)								
	Cum							
Basement floor (mantapa)		1	1.30	1.30	1.40	2.37		
						2.37	6019.92	**14243.00**
Basic Rate	5574.00							
Area Weightage @ 8%	445.92							
Total	**6019.92**							
KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to Stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curingetc.,complete as per specifications (Page No.114/Item No.15.18)								
	Sqm							
Basement floor (mantapa)		2	1.30		1.40	3.64		
		2	1.30		1.40	3.64		
Ext. to Retaining Wall		2	15.00		0.45	13.50		
						20.78	279.72	**5813.00**
Basic Rate	259.00							
Area Weightage @ 8%	20.72							
Total	**279.72**							
KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification No. 305, P No. 148/ Item No. 19.60								
Mantapa	Cum							
		1	6.50	6.50	0.30	12.68		
						12.68	326.16	**4134.08**
Basic Rate	302.00							
Area Weightage @ 8%	24.16							
Total	**326.16**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
3: Providing and laying **integral cement based waterproofing treatment** preparation of surface as required for treatment of roofs, balconies, terraces etc, of following application. (a) Applying and grouting a slurry coat of neat cement 75kg/sqm conforming admixed with proprietary water proofing compound g to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) ement concrete using broken brick bats 25mm to 100mm size with 50% of mortar 1:5 admixed with proprietary water proofing compound conforming over 20mm thick layer of cement layer of cement mortar 1:5 admixed with ary water proofing compound to required slope and treating similarly the adjoining to 300mm height including rounding off junction of walls and slabs, (c) after two proper curing, applying a second coat of cement lurry admixed with proprietary proofing compound (d) Finishing the surface with 20mm thick jointless cement of mix 1:4 admixed with proprietary water proofing compound and finally finishing face with trowel and neat cement slurry and making of 3000x300mm square, (e) ole terrace so finished shall be flooded with water for a minimum period of two for curing and for final test including cost of materials, labour complete as per lications. (Page No. 66 / Item No. 10.2) (Page No. 66 / Item No. 10.2 of 2016-17 SR)								
	Sqm							
		1	13.10	13.10		171.61		
				Net Qty		**171.61**	976.32	**167546.28**
Basic Rate	904.00							
Area Weightage @ 8%	72.32							
Total	**976.32**							
RB 6-2.3 : Providing and constructing burnt brick masonry with approved lity of non-modular bricks of standard size of class designation 7.5 Newton Sqmm with cement mortar 1:3 for basement and superstructure (machine ulded wirecut bricks) with cost of materials, labour charges, scaffolding, ing complete as per specifications. Specification No. KBS 6.2, (Page No. 27 em No. 6.11)								
	cum							
r Mantapa (Ground floor)		1	7.50	0.45	0.45	.1.52		
		1	2.80	0.35	0.20	0.20		
		1	1.50	0.35	0.20	0.11		
or Bricks Piller (Ground floor)		24	0.45	0.45	1.20	5.83		
				Net Qty		**7.65**	11451.24	**87622.00**
Basic Rate	10603.00							
Area Weightage @ 8%	848.24							
Total	**11451.24**							
KSRB 15-3.10 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to Brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page No.113 /Item No.15.12)								
	sqm							
for Bricks Piller (Ground floor)		24	1.80		1.20	51.84		
						51.84	221.40	**11477.38**
Basic Rate	205.00							
Area Weightage @ 8%	16.40							
Total	**221.40**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
and fixing for flooring 20mm thick gang saw water cut sadarhalli grey CM 1:4 proportion, cut to required shape pattern with paper joints with cement mortar using white cement colour pigment to match slab making through jointing with sealent, grooves in joints including ll materials mortar and labour etc.,complete as per specifications -do- width of 1200mm (Page No.109 / Item No.14.61.1)								
	Sqm							
a		1	7.50		0.45	3.38		
		1	2.80		0.20	0.56		
		1	1.50		0.20	0.30		
umns		12	2.20		4.10	108.24		
						112.48	2144.88	**241245.00**
Basic Rate	1986.00							
Area Weightage @ 8%	158.88							
Total	**2144.88**							
ding textured paint of approved quality, colour and shade to wall surface after ing and rubbing the wall surface with wire brush of medium size emery stone move all the loosely adhering particles, the surface is then cleaned with water ensured that it is in line and level. The textured material is then mixed with 40- of clean water until a homogeneous thick slurry is formed, the slurry is left for 5- nin, to react completely with ingredients. The textured finish prepared as above en applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel et the desired finish. The finished surface shall be applied with two coats of erior apex paint of approved shade. The rate includes providing and removing ffolding, all lead and lift and all other incidental charges etc., complete as per ections of the Engineer-in-charge of the work.(P.No.125 Item No.15.105)								
	Sqm							
eiling basement floor		1	13.10	13.10		171.61		
eiling Ground floor		1	13.10	13.10		171.61		
amp.a		1	10.45	4.95		51.73		
amp.b		1	3.80	4.90		18.62		
Roof beam Sides (Mantapa)		8	13.10		0.60	62.88		
		8	13.10		0.45	47.16		
		4	13.10		0.45	23.58		
		2	4.05		0.45	3.65		
		2	4.10		0.45	3.69		
		2	4.05		0.45	3.65		
		2	4.10		0.45	3.69		
Roof beam bottom (Mantapa)		4	13.10	0.45		23.58		
		4	13.10	0.45		23.58		
		2	13.10	0.20		5.24		
		1	4.05	0.20		0.81		
		1	4.10	0.20		0.82		
		1	4.05	0.20		0.81		
		1	4.10	0.20		0.82		
Roof beam Sides (Ramp.a)		4	10.45		0.60	25.08		
		4	4.95		0.45	8.91		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
m bottom (Ramp.a)		2	10.45	0.45		9.41		
		2	4.95	0.45		4.46		
s Piller (Ground floor)		24	1.80		1.20	51.84		
etaining Wall		2	15.00		0.60	18.00		
Retaining Wall		1	30.00		2.30	69.00		
				Net Qty		804.21	375.84	302253.35
Basic Rate	348.00							
Area Weightage @ 8%	27.84							
Total	**375.84**							

14.14.4: Providing Ceramic tiles of approved make,shade and size for g, treads of steps and landing, laid on a bed of 12mm thick, cement 1:3 mix, flush pointing using white cement with using colour pigment, ng cost of materials, labour, complete as per specifications. (Page No. tem No.14.36.2)

	Sqm							
ment floor (mantapa)		4	1.30	1.40		7.28		
		1	1.30	1.30		1.69		
						8.97	1270.08	**11392.62**
Basic Rate	1176.00							
Area Weightage @ 8%	94.08							
Total	**1270.08**							

RB 14.14.3: Providing skirting, dadoing, rises of steps with colour glazed s of size 10mm thick cement plaster 1:3 and joited with white cement over sting rough plaster surface using glazed tiles of approved make and size luding cost of materials, labour, complete as per specifications. (Page .106 / Item No.14.41.1) -do- colour glazed tiles 15X15cms 6mm thick

	Sqm							
asement floor (mantapa)		2	1.40		1.40	3.92		
		2	1.20		1.40	3.36		
						7.28	1157.76	**8428.49**
Basic Rate	1072.00							
Area Weightage @ 8%	85.76							
Total	**1157.76**							

KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)

	Cum							
Pathway		1	134.00	5.00	0.35	234.50		
						234.50	169.56	**39761.82**
Basic Rate	157.00							
Area Weightage @ 8%	12.56							
Total	**169.56**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
15	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
		Cum							
	Pathway		1	134.00	5.00	0.15	100.50		
							100.50	5256.36	**528264.18**
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
16	KSRB 14.6-2 : Providing and laying heavy duty cobble stones 60 mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. (P.No.101 / Item No.14.6)								
		Cum							
	Pathway		1	134.00	5.00		670.00		
							670.00	984.96	**659923.20**
	Basic Rate	912.00							
	Area Weightage @ 8%	72.96							
	Total	**984.96**							
17	Miscellaneous and unforeseen charges								**4435.00**
							Grand Total Amount		**3000000.00**

(Rupees Thirty Lakhs Only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.01
Kempe Gowda Ward

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Administrative Approval

Accorded For Rs Thirty lakhs only
Head of A/C P-2415
CER NO AS/362/17-18 Dt:13.03.18

TA CE (YNK)

Technical Sanction

Accorded For Rs Thirty lakhs only
Head of A/C P-2415
CER NO :TS/332/17-18 Dt:13.03.18

TA CE (YNK)